

1-25  A 2 mm thick by 3 cm wide AISI 1010 carbon steel strip is cooled in a chamber from 597 to 47°C to avoid instantaneous thermal burn upon contact with skin tissue. The amount of heat rate to be removed from the steel strip is to be determined.



Assumptions 1 Steady operating conditions exist. 2 The stainless steel sheet has constant specific heat and density. 3 Changes in potential and kinetic energy are negligible.

Properties For AISI 1010 carbon steel, the specific heat of AISI 1010 steel at $(597 + 47)^\circ\text{C} / 2 = 322^\circ\text{C} = 595\text{ K}$ is $682\text{ J/kg}\cdot\text{K}$ (by interpolation from Table A-3), and the density is given as 7832 kg/m^3 .

Analysis The mass of the steel strip being conveyed enters and exits the chamber at a rate of

$$\dot{m} = \rho \dot{V} = \rho b v t$$

The rate of heat being removed from the steel strip in the chamber is given as

$$\begin{aligned}\dot{Q}_{\text{removed}} &= \dot{m} c_p (T_{\text{in}} - T_{\text{out}}) \\ &= \rho b v t c_p (T_{\text{in}} - T_{\text{out}}) \\ &= (7832\text{ kg/m}^3)(1\text{ m/s})(0.030\text{ m})(0.002\text{ m})(682\text{ J/kg}\cdot\text{K})(597 - 47)\text{ K} \\ &= \mathbf{176\text{ kW}}\end{aligned}$$

Discussion By slowing down the conveyance speed of the steel strip would reduce the amount of heat rate needed to be removed from the steel strip in the cooling chamber. Since slowing the conveyance speed allows more time for the steel strip to cool.

Solution Manual Heat Transfer Incropera 5th Edition

David Kirk



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Table of Contents Solution Manual Heat Transfer Incropera 5th Edition

1. Understanding the eBook Solution Manual Heat Transfer Incropera 5th Edition
 - The Rise of Digital Reading Solution Manual Heat Transfer Incropera 5th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Heat Transfer Incropera 5th Edition
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual Heat Transfer Incropera 5th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Heat Transfer Incropera 5th Edition
 - Personalized Recommendations
 - Solution Manual Heat Transfer Incropera 5th Edition User Reviews and Ratings
 - Solution Manual Heat Transfer Incropera 5th Edition and Bestseller Lists

5. Accessing Solution Manual Heat Transfer Incropera 5th Edition Free and Paid eBooks
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 - Highlighting and Note-Taking Solution Manual Heat Transfer Incropera 5th Edition
 - Interactive Elements Solution Manual Heat Transfer Incropera 5th Edition
8. Staying Engaged with Solution Manual Heat Transfer Incropera 5th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Heat Transfer Incropera 5th Edition
9. Balancing eBooks and Physical Books Solution Manual Heat Transfer Incropera 5th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Heat Transfer Incropera 5th Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solution Manual Heat Transfer Incropera 5th Edition
 - Setting Reading Goals Solution Manual Heat Transfer Incropera 5th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Manual Heat Transfer Incropera 5th Edition
 - Fact-Checking eBook Content of Solution Manual Heat Transfer Incropera 5th Edition
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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